

07-13-01

EL225850383US

A

Please type a plus sign (+) inside this box → ☒Approved for use through 09/30/2000. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No. PHIL 2301000

First Inventor or Application Identifier Allen He, et al

Title Method and Apparatus for a Blind Gain Ratio Detector

Express Mail Label No. EL225850383

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. ☒ * Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☒ Specification [Total Pages 15]
(preferred arrangement set forth below)
- Descriptive title of the invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
 - Background of the invention
 - Brief Summary of the invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 4]
4. Oath or Declaration [Total Pages 2]
- a. ☐ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 C.F.R. § 1.63(d))
(for continuation/divisional with Box 16 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

5. ☐ Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- a. ☐ Computer Readable Copy
 - b. ☐ Paper Copy (identical to computer copy)
 - c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

7. ☐ Assignment Papers (cover sheet & document(s))
8. ☐ 37 C.F.R. § 3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)
9. ☐ English Translation Document (if applicable)
10. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
11. ☐ Preliminary Amendment
12. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
13. ☐ * Small Entity Statement(s) ☐ Statement filed in prior application, Status still proper and desired
(PTO/SB/09-12)
14. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
15. ☒ Other:

Check in the amount of \$870.0

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No. _____

Prior application information: Examiner _____

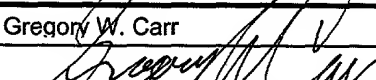
Group / Art Unit: _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS☐ Customer Number or Bar Code Labelor ☐ Correspondence address below

(Insert Customer No. or Attach bar code label here)

Name	Gregory W. Carr				
	CARR & STORM, L.L.P.				
Address	900 Jackson Street				
	670 Founders Square				
City	Dallas	State	Texas	Zip Code	75202
Country	United States of America	Telephone	(214) 760-3032	Fax	(214) 760-3003

Name (Print/Type)	Gregory W. Carr	Registration No. (Attorney/Agent)	31,093
Signature		Date	July 12, 2001

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

FEE TRANSMITTAL for FY 2000 <small>Patent fees are subject to annual revision. Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12. See 37 C.F.R. §§ 1.27 and 1.28.</small>		Complete if Known	
TOTAL AMOUNT OF PAYMENT (\$) 870.00		Application Number	N/A
		Filing Date	HEREWITH
		First Named Inventor	Allen He, et al.
		Examiner Name	N/A
		Group / Art Unit	N/A
		Attorney Docket No.	PHIL 2301000

METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)																																																																																																																																																																													
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to: Deposit Account Number 50-0605 Deposit Account Name CARR & STORM, L.L.P. <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17		3. ADDITIONAL FEES <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr><tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet.</td><td></td></tr><tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr><tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr><tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr><tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr><tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr><tr><td>116</td><td>380</td><td>216</td><td>190</td><td>Extension for reply within second month</td><td></td></tr><tr><td>117</td><td>870</td><td>217</td><td>435</td><td>Extension for reply within third month</td><td></td></tr><tr><td>118</td><td>1,360</td><td>218</td><td>680</td><td>Extension for reply within fourth month</td><td></td></tr><tr><td>128</td><td>1,850</td><td>228</td><td>925</td><td>Extension for reply within fifth month</td><td></td></tr><tr><td>119</td><td>300</td><td>219</td><td>150</td><td>Notice of Appeal</td><td></td></tr><tr><td>120</td><td>300</td><td>220</td><td>150</td><td>Filing a brief in support of an appeal</td><td></td></tr><tr><td>121</td><td>260</td><td>221</td><td>130</td><td>Request for oral hearing</td><td></td></tr><tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr><tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr><tr><td>141</td><td>1,210</td><td>241</td><td>605</td><td>Petition to revive - unintentional</td><td></td></tr><tr><td>142</td><td>1,210</td><td>242</td><td>605</td><td>Utility issue fee (or reissue)</td><td></td></tr><tr><td>143</td><td>430</td><td>243</td><td>215</td><td>Design issue fee</td><td></td></tr><tr><td>144</td><td>580</td><td>244</td><td>290</td><td>Plant issue fee</td><td></td></tr><tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr><tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr><tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Stmt</td><td></td></tr><tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr><tr><td>146</td><td>690</td><td>246</td><td>345</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td></td></tr><tr><td>149</td><td>690</td><td>249</td><td>345</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td></td></tr><tr><td colspan="2"></td><td colspan="2">Other fee (specify) _____</td></tr><tr><td colspan="2"></td><td colspan="2">Other fee (specify) _____</td></tr><tr><td colspan="2">SUBTOTAL (3) (\$)</td><td colspan="2"></td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	105	130	205	65	Surcharge - late filing fee or oath		127	50	227	25	Surcharge - late provisional filing fee or cover sheet.		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for reexamination		112	920*	112	920*	Requesting publication of SIR prior to Examiner action		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for reply within first month		116	380	216	190	Extension for reply within second month		117	870	217	435	Extension for reply within third month		118	1,360	218	680	Extension for reply within fourth month		128	1,850	228	925	Extension for reply within fifth month		119	300	219	150	Notice of Appeal		120	300	220	150	Filing a brief in support of an appeal		121	260	221	130	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive - unavoidable		141	1,210	241	605	Petition to revive - unintentional		142	1,210	242	605	Utility issue fee (or reissue)		143	430	243	215	Design issue fee		144	580	244	290	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Petitions related to provisional applications		126	240	126	240	Submission of Information Disclosure Stmt		581	40	581	40	Recording each patent assignment per property (times number of properties)		146	690	246	345	Filing a submission after final rejection (37 CFR § 1.129(a))		149	690	249	345	For each additional invention to be examined (37 CFR § 1.129(b))				Other fee (specify) _____				Other fee (specify) _____		SUBTOTAL (3) (\$)			
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
105	130	205	65	Surcharge - late filing fee or oath																																																																																																																																																																											
127	50	227	25	Surcharge - late provisional filing fee or cover sheet.																																																																																																																																																																											
139	130	139	130	Non-English specification																																																																																																																																																																											
147	2,520	147	2,520	For filing a request for reexamination																																																																																																																																																																											
112	920*	112	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																											
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																											
115	110	215	55	Extension for reply within first month																																																																																																																																																																											
116	380	216	190	Extension for reply within second month																																																																																																																																																																											
117	870	217	435	Extension for reply within third month																																																																																																																																																																											
118	1,360	218	680	Extension for reply within fourth month																																																																																																																																																																											
128	1,850	228	925	Extension for reply within fifth month																																																																																																																																																																											
119	300	219	150	Notice of Appeal																																																																																																																																																																											
120	300	220	150	Filing a brief in support of an appeal																																																																																																																																																																											
121	260	221	130	Request for oral hearing																																																																																																																																																																											
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																											
140	110	240	55	Petition to revive - unavoidable																																																																																																																																																																											
141	1,210	241	605	Petition to revive - unintentional																																																																																																																																																																											
142	1,210	242	605	Utility issue fee (or reissue)																																																																																																																																																																											
143	430	243	215	Design issue fee																																																																																																																																																																											
144	580	244	290	Plant issue fee																																																																																																																																																																											
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																											
123	50	123	50	Petitions related to provisional applications																																																																																																																																																																											
126	240	126	240	Submission of Information Disclosure Stmt																																																																																																																																																																											
581	40	581	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																											
146	690	246	345	Filing a submission after final rejection (37 CFR § 1.129(a))																																																																																																																																																																											
149	690	249	345	For each additional invention to be examined (37 CFR § 1.129(b))																																																																																																																																																																											
		Other fee (specify) _____																																																																																																																																																																													
		Other fee (specify) _____																																																																																																																																																																													
SUBTOTAL (3) (\$)																																																																																																																																																																															
2. EXTRA CLAIM FEES <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td>710.00</td></tr><tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr><tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr><tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr><tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="2">SUBTOTAL (1) (\$)</td><td colspan="2">710.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	101	690	201	345	Utility filing fee	710.00	106	310	206	155	Design filing fee		107	480	207	240	Plant filing fee		108	690	208	345	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1) (\$)		710.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
101	690	201	345	Utility filing fee	710.00																																																																																																																																																																										
106	310	206	155	Design filing fee																																																																																																																																																																											
107	480	207	240	Plant filing fee																																																																																																																																																																											
108	690	208	345	Reissue filing fee																																																																																																																																																																											
114	150	214	75	Provisional filing fee																																																																																																																																																																											
SUBTOTAL (1) (\$)		710.00																																																																																																																																																																													
2. EXTRA CLAIM FEES <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr><tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr><tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent</td><td></td></tr><tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="2">SUBTOTAL (2) (\$)</td><td colspan="2">160.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims in excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	** Reissue independent claims over original patent		110	18	210	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$)		160.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
103	18	203	9	Claims in excess of 20																																																																																																																																																																											
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																											
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																											
109	78	209	39	** Reissue independent claims over original patent																																																																																																																																																																											
110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																											
SUBTOTAL (2) (\$)		160.00																																																																																																																																																																													
3. BASIC FILING FEE <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td>710.00</td></tr><tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr><tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr><tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr><tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="2">SUBTOTAL (1) (\$)</td><td colspan="2">710.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	101	690	201	345	Utility filing fee	710.00	106	310	206	155	Design filing fee		107	480	207	240	Plant filing fee		108	690	208	345	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1) (\$)		710.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
101	690	201	345	Utility filing fee	710.00																																																																																																																																																																										
106	310	206	155	Design filing fee																																																																																																																																																																											
107	480	207	240	Plant filing fee																																																																																																																																																																											
108	690	208	345	Reissue filing fee																																																																																																																																																																											
114	150	214	75	Provisional filing fee																																																																																																																																																																											
SUBTOTAL (1) (\$)		710.00																																																																																																																																																																													
2. EXTRA CLAIM FEES <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr><tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr><tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent</td><td></td></tr><tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="2">SUBTOTAL (2) (\$)</td><td colspan="2">160.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims in excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	** Reissue independent claims over original patent		110	18	210	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$)		160.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
103	18	203	9	Claims in excess of 20																																																																																																																																																																											
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																											
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																											
109	78	209	39	** Reissue independent claims over original patent																																																																																																																																																																											
110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																											
SUBTOTAL (2) (\$)		160.00																																																																																																																																																																													
3. BASIC FILING FEE <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td>710.00</td></tr><tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr><tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr><tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr><tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="2">SUBTOTAL (1) (\$)</td><td colspan="2">710.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	101	690	201	345	Utility filing fee	710.00	106	310	206	155	Design filing fee		107	480	207	240	Plant filing fee		108	690	208	345	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1) (\$)		710.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
101	690	201	345	Utility filing fee	710.00																																																																																																																																																																										
106	310	206	155	Design filing fee																																																																																																																																																																											
107	480	207	240	Plant filing fee																																																																																																																																																																											
108	690	208	345	Reissue filing fee																																																																																																																																																																											
114	150	214	75	Provisional filing fee																																																																																																																																																																											
SUBTOTAL (1) (\$)		710.00																																																																																																																																																																													
2. EXTRA CLAIM FEES <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr><tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr><tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent</td><td></td></tr><tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="2">SUBTOTAL (2) (\$)</td><td colspan="2">160.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims in excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	** Reissue independent claims over original patent		110	18	210	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$)		160.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
103	18	203	9	Claims in excess of 20																																																																																																																																																																											
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																											
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																											
109	78	209	39	** Reissue independent claims over original patent																																																																																																																																																																											
110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																											
SUBTOTAL (2) (\$)		160.00																																																																																																																																																																													
3. BASIC FILING FEE <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td>710.00</td></tr><tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr><tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr><tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr><tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="2">SUBTOTAL (1) (\$)</td><td colspan="2">710.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	101	690	201	345	Utility filing fee	710.00	106	310	206	155	Design filing fee		107	480	207	240	Plant filing fee		108	690	208	345	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1) (\$)		710.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
101	690	201	345	Utility filing fee	710.00																																																																																																																																																																										
106	310	206	155	Design filing fee																																																																																																																																																																											
107	480	207	240	Plant filing fee																																																																																																																																																																											
108	690	208	345	Reissue filing fee																																																																																																																																																																											
114	150	214	75	Provisional filing fee																																																																																																																																																																											
SUBTOTAL (1) (\$)		710.00																																																																																																																																																																													
2. EXTRA CLAIM FEES <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr><tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr><tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent</td><td></td></tr><tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="2">SUBTOTAL (2) (\$)</td><td colspan="2">160.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims in excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	** Reissue independent claims over original patent		110	18	210	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$)		160.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
103	18	203	9	Claims in excess of 20																																																																																																																																																																											
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																											
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																											
109	78	209	39	** Reissue independent claims over original patent																																																																																																																																																																											
110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																											
SUBTOTAL (2) (\$)		160.00																																																																																																																																																																													
3. BASIC FILING FEE <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td>710.00</td></tr><tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr><tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr><tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr><tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="2">SUBTOTAL (1) (\$)</td><td colspan="2">710.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	101	690	201	345	Utility filing fee	710.00	106	310	206	155	Design filing fee		107	480	207	240	Plant filing fee		108	690	208	345	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1) (\$)		710.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
101	690	201	345	Utility filing fee	710.00																																																																																																																																																																										
106	310	206	155	Design filing fee																																																																																																																																																																											
107	480	207	240	Plant filing fee																																																																																																																																																																											
108	690	208	345	Reissue filing fee																																																																																																																																																																											
114	150	214	75	Provisional filing fee																																																																																																																																																																											
SUBTOTAL (1) (\$)		710.00																																																																																																																																																																													
2. EXTRA CLAIM FEES <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr><tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr><tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent</td><td></td></tr><tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="2">SUBTOTAL (2) (\$)</td><td colspan="2">160.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims in excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	** Reissue independent claims over original patent		110	18	210	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$)		160.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
103	18	203	9	Claims in excess of 20																																																																																																																																																																											
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																											
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																											
109	78	209	39	** Reissue independent claims over original patent																																																																																																																																																																											
110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																											
SUBTOTAL (2) (\$)		160.00																																																																																																																																																																													
3. BASIC FILING FEE <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td>710.00</td></tr><tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr><tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr><tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr><tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="2">SUBTOTAL (1) (\$)</td><td colspan="2">710.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	101	690	201	345	Utility filing fee	710.00	106	310	206	155	Design filing fee		107	480	207	240	Plant filing fee		108	690	208	345	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1) (\$)		710.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
101	690	201	345	Utility filing fee	710.00																																																																																																																																																																										
106	310	206	155	Design filing fee																																																																																																																																																																											
107	480	207	240	Plant filing fee																																																																																																																																																																											
108	690	208	345	Reissue filing fee																																																																																																																																																																											
114	150	214	75	Provisional filing fee																																																																																																																																																																											
SUBTOTAL (1) (\$)		710.00																																																																																																																																																																													
2. EXTRA CLAIM FEES <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr><tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr><tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent</td><td></td></tr><tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="2">SUBTOTAL (2) (\$)</td><td colspan="2">160.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims in excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	** Reissue independent claims over original patent		110	18	210	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$)		160.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
103	18	203	9	Claims in excess of 20																																																																																																																																																																											
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																											
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																											
109	78	209	39	** Reissue independent claims over original patent																																																																																																																																																																											
110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																											
SUBTOTAL (2) (\$)		160.00																																																																																																																																																																													
3. BASIC FILING FEE <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td>710.00</td></tr><tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr><tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr><tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr><tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="2">SUBTOTAL (1) (\$)</td><td colspan="2">710.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	101	690	201	345	Utility filing fee	710.00	106	310	206	155	Design filing fee		107	480	207	240	Plant filing fee		108	690	208	345	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1) (\$)		710.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
101	690	201	345	Utility filing fee	710.00																																																																																																																																																																										
106	310	206	155	Design filing fee																																																																																																																																																																											
107	480	207	240	Plant filing fee																																																																																																																																																																											
108	690	208	345	Reissue filing fee																																																																																																																																																																											
114	150	214	75	Provisional filing fee																																																																																																																																																																											
SUBTOTAL (1) (\$)		710.00																																																																																																																																																																													
2. EXTRA CLAIM FEES <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr><tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr><tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent</td><td></td></tr><tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="2">SUBTOTAL (2) (\$)</td><td colspan="2">160.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims in excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	** Reissue independent claims over original patent		110	18	210	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$)		160.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
103	18	203	9	Claims in excess of 20																																																																																																																																																																											
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																											
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																											
109	78	209	39	** Reissue independent claims over original patent																																																																																																																																																																											
110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																											
SUBTOTAL (2) (\$)		160.00																																																																																																																																																																													
3. BASIC FILING FEE <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td>710.00</td></tr><tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr><tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr><tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr><tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="2">SUBTOTAL (1) (\$)</td><td colspan="2">710.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	101	690	201	345	Utility filing fee	710.00	106	310	206	155	Design filing fee		107	480	207	240	Plant filing fee		108	690	208	345	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1) (\$)		710.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
101	690	201	345	Utility filing fee	710.00																																																																																																																																																																										
106	310	206	155	Design filing fee																																																																																																																																																																											
107	480	207	240	Plant filing fee																																																																																																																																																																											
108	690	208	345	Reissue filing fee																																																																																																																																																																											
114	150	214	75	Provisional filing fee																																																																																																																																																																											
SUBTOTAL (1) (\$)		710.00																																																																																																																																																																													
2. EXTRA CLAIM FEES <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr><tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr><tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent</td><td></td></tr><tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="2">SUBTOTAL (2) (\$)</td><td colspan="2">160.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims in excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	** Reissue independent claims over original patent		110	18	210	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$)		160.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
103	18	203	9	Claims in excess of 20																																																																																																																																																																											
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																											
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																											
109	78	209	39	** Reissue independent claims over original patent																																																																																																																																																																											
110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																											
SUBTOTAL (2) (\$)		160.00																																																																																																																																																																													
3. BASIC FILING FEE <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td>710.00</td></tr><tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr><tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr><tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr><tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="2">SUBTOTAL (1) (\$)</td><td colspan="2">710.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	101	690	201	345	Utility filing fee	710.00	106	310	206	155	Design filing fee		107	480	207	240	Plant filing fee		108	690	208	345	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1) (\$)		710.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
101	690	201	345	Utility filing fee	710.00																																																																																																																																																																										
106	310	206	155	Design filing fee																																																																																																																																																																											
107	480	207	240	Plant filing fee																																																																																																																																																																											
108	690	208	345	Reissue filing fee																																																																																																																																																																											
114	150	214	75	Provisional filing fee																																																																																																																																																																											
SUBTOTAL (1) (\$)		710.00																																																																																																																																																																													
2. EXTRA CLAIM FEES <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr><tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr><tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent</td><td></td></tr><tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="2">SUBTOTAL (2) (\$)</td><td colspan="2">160.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims in excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	** Reissue independent claims over original patent		110	18	210	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$)		160.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
103	18	203	9	Claims in excess of 20																																																																																																																																																																											
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																											
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																											
109	78	209	39	** Reissue independent claims over original patent																																																																																																																																																																											
110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																											
SUBTOTAL (2) (\$)		160.00																																																																																																																																																																													
3. BASIC FILING FEE <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td>710.00</td></tr><tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr><tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr><tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr><tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="2">SUBTOTAL (1) (\$)</td><td colspan="2">710.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	101	690	201	345	Utility filing fee	710.00	106	310	206	155	Design filing fee		107	480	207	240	Plant filing fee		108	690	208	345	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1) (\$)		710.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
101	690	201	345	Utility filing fee	710.00																																																																																																																																																																										
106	310	206	155	Design filing fee																																																																																																																																																																											
107	480	207	240	Plant filing fee																																																																																																																																																																											
108	690	208	345	Reissue filing fee																																																																																																																																																																											
114	150	214	75	Provisional filing fee																																																																																																																																																																											
SUBTOTAL (1) (\$)		710.00																																																																																																																																																																													
2. EXTRA CLAIM FEES <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr><tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr><tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent</td><td></td></tr><tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="2">SUBTOTAL (2) (\$)</td><td colspan="2">160.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims in excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	** Reissue independent claims over original patent		110	18	210	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$)		160.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
103	18	203	9	Claims in excess of 20																																																																																																																																																																											
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																											
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																											
109	78	209	39	** Reissue independent claims over original patent																																																																																																																																																																											
110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																											
SUBTOTAL (2) (\$)		160.00																																																																																																																																																																													
3. BASIC FILING FEE <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td>710.00</td></tr><tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr><tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr><tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr><tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="2">SUBTOTAL (1) (\$)</td><td colspan="2">710.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	101	690	201	345	Utility filing fee	710.00	106	310	206	155	Design filing fee		107	480	207	240	Plant filing fee		108	690	208	345	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1) (\$)		710.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
101	690	201	345	Utility filing fee	710.00																																																																																																																																																																										
106	310	206	155	Design filing fee																																																																																																																																																																											
107	480	207	240	Plant filing fee																																																																																																																																																																											
108	690	208	345	Reissue filing fee																																																																																																																																																																											
114	150	214	75	Provisional filing fee																																																																																																																																																																											
SUBTOTAL (1) (\$)		710.00																																																																																																																																																																													
2. EXTRA CLAIM FEES <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr><tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr><tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent</td><td></td></tr><tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="2">SUBTOTAL (2) (\$)</td><td colspan="2">160.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims in excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	** Reissue independent claims over original patent		110	18	210	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$)		160.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
103	18	203	9	Claims in excess of 20																																																																																																																																																																											
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																											
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																											
109	78	209	39	** Reissue independent claims over original patent																																																																																																																																																																											
110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																											
SUBTOTAL (2) (\$)		160.00																																																																																																																																																																													
3. BASIC FILING FEE <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td>710.00</td></tr><tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr><tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr><tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr><tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="2">SUBTOTAL (1) (\$)</td><td colspan="2">710.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	101	690	201	345	Utility filing fee	710.00	106	310	206	155	Design filing fee		107	480	207	240	Plant filing fee		108	690	208	345	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1) (\$)		710.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
101	690	201	345	Utility filing fee	710.00																																																																																																																																																																										
106	310	206	155	Design filing fee																																																																																																																																																																											
107	480	207	240	Plant filing fee																																																																																																																																																																											
108	690	208	345	Reissue filing fee																																																																																																																																																																											
114	150	214	75	Provisional filing fee																																																																																																																																																																											
SUBTOTAL (1) (\$)		710.00																																																																																																																																																																													
2. EXTRA CLAIM FEES <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr><tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr><tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent</td><td></td></tr><tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="2">SUBTOTAL (2) (\$)</td><td colspan="2">160.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims in excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	** Reissue independent claims over original patent		110	18	210	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$)		160.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
103	18	203	9	Claims in excess of 20																																																																																																																																																																											
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																											
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																											
109	78	209	39	** Reissue independent claims over original patent																																																																																																																																																																											
110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																											
SUBTOTAL (2) (\$)		160.00																																																																																																																																																																													
3. BASIC FILING FEE <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td>710.00</td></tr><tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr><tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr><tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr><tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="2">SUBTOTAL (1) (\$)</td><td colspan="2">710.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	101	690	201	345	Utility filing fee	710.00	106	310	206	155	Design filing fee		107	480	207	240	Plant filing fee		108	690	208	345	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1) (\$)		710.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
101	690	201	345	Utility filing fee	710.00																																																																																																																																																																										
106	310	206	155	Design filing fee																																																																																																																																																																											
107	480	207	240	Plant filing fee																																																																																																																																																																											
108	690	208	345	Reissue filing fee																																																																																																																																																																											
114	150	214	75	Provisional filing fee																																																																																																																																																																											
SUBTOTAL (1) (\$)		710.00																																																																																																																																																																													
2. EXTRA CLAIM FEES <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr><tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr><tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent</td><td></td></tr><tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="2">SUBTOTAL (2) (\$)</td><td colspan="2">160.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims in excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	** Reissue independent claims over original patent		110	18	210	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$)		160.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
103	18	203	9	Claims in excess of 20																																																																																																																																																																											
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																											
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																											
109	78	209	39	** Reissue independent claims over original patent																																																																																																																																																																											
110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																											
SUBTOTAL (2) (\$)		160.00																																																																																																																																																																													
3. BASIC FILING FEE <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td>710.00</td></tr><tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr><tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr><tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr><tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="2">SUBTOTAL (1) (\$)</td><td colspan="2">710.00</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	101	690	201	345	Utility filing fee	710.00	106	310	206	155	Design filing fee		107	480	207	240	Plant filing fee		108	690	208	345	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1) (\$)		710.00																																																																																																																																									
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
101	690	201	345	Utility filing fee	710.00																																																																																																																																																																										
106	310	206	155	Design filing fee																																																																																																																																																																											
107	480	207	240	Plant filing fee																																																																																																																																																																											
108	690	208	345	Reissue filing fee																																																																																																																																																																											
114	150	214	75	Provisional filing fee																																																																																																																																																																											
SUBTOTAL (1) (\$)		710.00																																																																																																																																																																													
2. EXTRA CLAIM FEES <table border="1"><thead><tr><th>Large Entity Fee Code</th><th>Small Entity Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>103</td><td>18</td><td>203</</td></tr></tbody></table>		Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	103	18	203</																																																																																																																																																																							
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																												
103	18	203</																																																																																																																																																																													